JMPS Program Brief

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Strike Domain Representative

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Why JMPS?
Multiple Systems Now Fielded

- Tactical Planning - multiple applications; no common picture
  - TAMPS
  - TEAMS
  - AV-8B MPS
  - PFPS
- Interoperability –manual input-data cannot be shared
- Acquisition Support
  - Multiple program offices
  - Multiple Requirements chains
  - Multiple Competing programs

New Planning Features

Taking the best of PFPS **and more**

Some of JMPS Benefits

- **Interoperability/Collaboration** - Gulf & Kosovo CAOCs #1 Need
- **Reduced mission plan time** - Concurrent aircraft/weapon planning
  - System usable for Real Time Targeting, Mobile Target Planning
- **Improved Precision Engagement** - Integrates new smart weapons
- **Single Entry Point for Weapons Planning** – User high interest Requirement
- **Open Architecture** – Best means to address evolutionary requirements - Future capabilities integrated by developers
- **Standards-based Architecture** – Facilitates incremental technology insertion rather than large system redesign
- **Reduced life cycle costs** - Single platform - Multi-service funding
- **COE** and **GATM** compliance
- ORDs Call for a **PC-Based** Planner

Force Level Planning

Strike Planning

Combined Aircraft & Weapon Planning

Support Planning

Assault Planning

JMPS will be the Single Mission Planning Solution for Warfighters

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4

Other Capabilities in JMPS

- Multi-route, single-window planning
- GPS Almanac
- Route portability
- Maps (U.S. and European)

- Server / Walkaway
- Water pages
- GPS Crypto
- Route Linking
- Mission Binder

Commonality
Mission Planning Environment (MPE)

Collaborative Planning

Mission Rehearsal

PGM Planner

Sensor Prediction

Auto Router

Low Observable

ARC210 / JTIDs

Moving Map

Aerial Refueling

Combat 1

Version 1

26 Common Capabilities

V-22 JMPS MPE
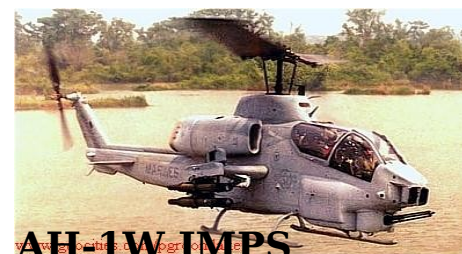
V-22 UPC
SPF
Collaborative
Mission Rehearsal
ARC-210
NIMA DOV
Combat I
Version I

AV-8B JMPS MPE

AV-8B UPC
SPF
Collaborative
Mission Rehearsal
Planning
PGM Planner
ARC-210
GPS Prediction
Combat I
Version I

AH-1W JMPS MPE
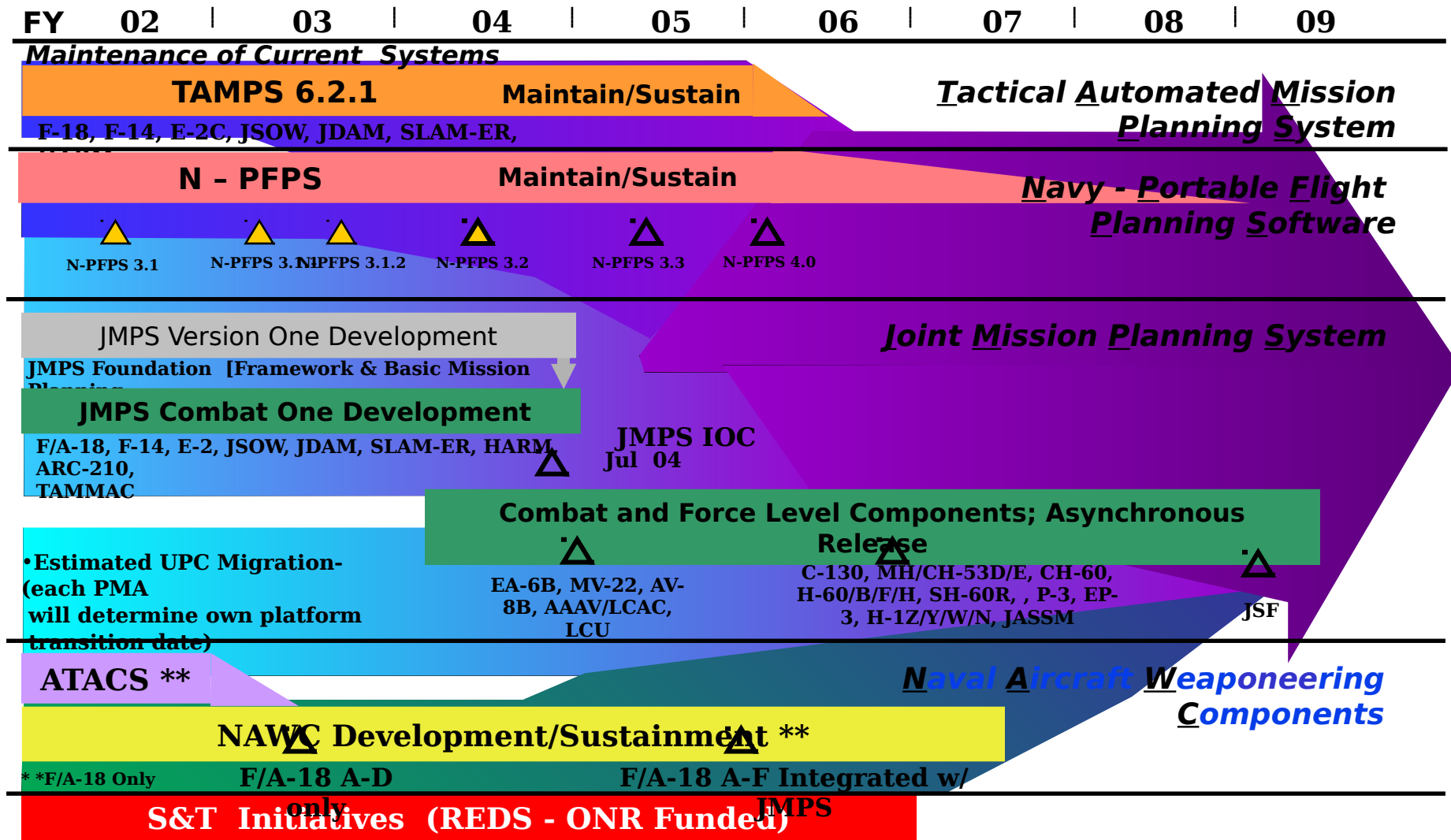
AH-1 UPC
Collaborative
Mission Rehearsal
Planning
ARC-210
Sensor Prediction
Version I

Each Aircraft Will Have Unique Configuration

Nominal Data

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6

NavMPS Program Brief
Migration Roadmap

FY   02   03   04   05   06   07   08   09

Maintenance of Current Systems

TAMPS 6.2.1   **Maintain/Sustain**

Tactical Automated Mission Planning System

F-18, F-14, E-2C, JSOW, JDAM, SLAM-ER,

N – PFPS   **Maintain/Sustain**

Navy - Portable Flight Planning Software

N-PFPS 3.1   N-PFPS 3.1.1   N-PFPS 3.1.2   N-PFPS 3.2   N-PFPS 3.3   N-PFPS 4.0

JMPS Version One Development

Joint Mission Planning System

JMPS Foundation [Framework & Basic Mission Planning

JMPS Combat One Development

F/A-18, F-14, E-2, JSOW, JDAM, SLAM-ER, HARM, ARC-210, TAMMAC

JMPS IOC
Jul 04

Combat and Force Level Components; Asynchronous Release

•Estimated UPC Migration-(each PMA
will determine own platform
transition date)

EA-6B, MV-22, AV-8B, AAAV/LCAC, LCU

C-130, MH/CH-53D/E, CH-60, H-60/B/F/H, SH-60R, , P-3, EP-3, H-1Z/Y/W/N, JASSM

JSF

ATACS **

Naval Aircraft Weaponeering Components

NAWC Development/Sustainment **

* *F/A-18 Only   **F/A-18 A-D only**   **F/A-18 A-F Integrated w/ JMPS**

S&T Initiatives (REDS - ONR Funded)

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7

Deployment Strategy

- Plan to release JMPS via CD or DVD quarterly
  - Upgrades
  - New capabilities
- Will not lock hard drive like NMCI
  - Will have a approved Software list
- JMPS requires COE
  - DOD Policy - COE is not authorized on personal computers
- Two JMPS installs
  - Classified and unclassified

Deployment Strategy (cont)

- Initial JMPS builds will be delivered with hardware

  - Primary focus is to support TAMPS users

  - Other communities will be supported based on need

- JMPS and PFPS can be loaded on same PC

  - JMPS maps need to be loaded first

  - Will send out a loading check list (help desk can also support)

Proposed Future Development

	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q	1Q 2Q 3Q 4Q
Common Capabilities		Weapons Effectiveness Tool						
		Basic JMPS Fixes						
			Airdrop					
			Autorouting					
		Terrain/Vertical						
			Mission Rehearsal					
			Weather Planning					
			Electronic Warfare Planning					
			Collaborative Planning					
			Query/Process Imagery					
			Intel Planning					

Strategy in Place

Points of Contact

- **Strike** – LCDR Joe Gardiner Com: 301-757-8015
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- **Expeditionary** – Maj Will Bentley DSN 757-8015

- **Training** – Mr Jon Drof Com: 301-757-8015

- **NSAWC** – LT Leprosina Com: 775 426 3816

- **MAWTS-1 –** Maj Pappas DSN: 269-2930

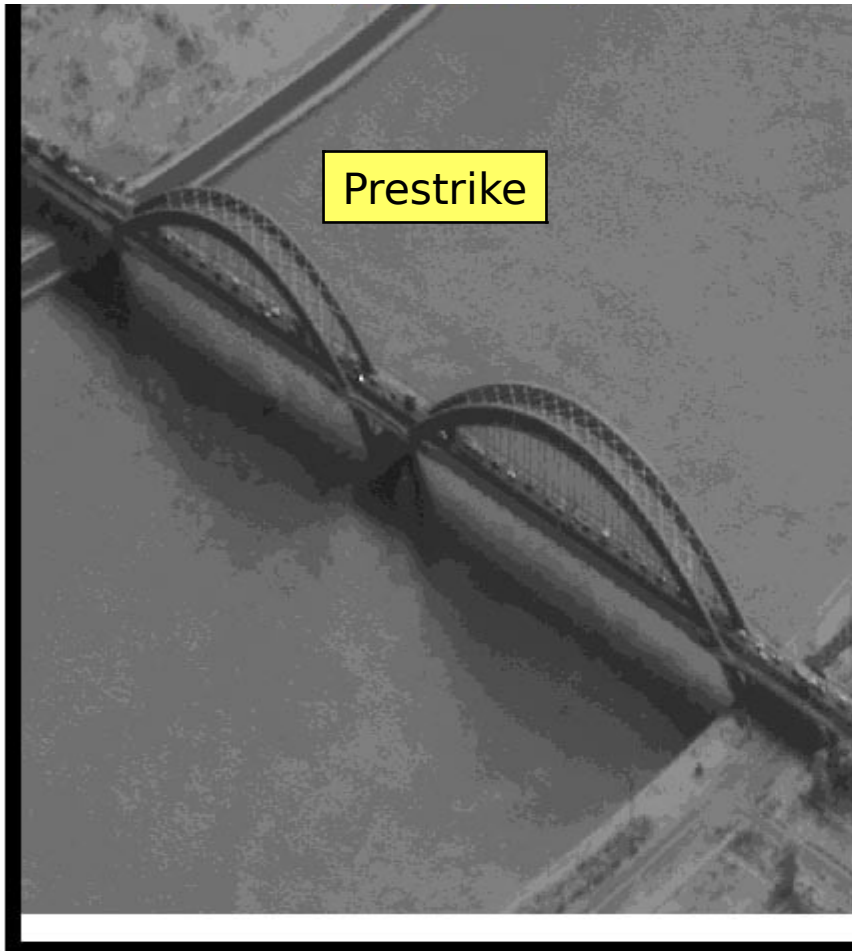- **JMPS Website info:** JMPS Web site
  https://jmps.chinalake.navy.mil

Summary

- JMPS
  - More capability to the warfighter
  - Improve collaboration/interoperability
  - Reduce number of supported systems

- Influence the future
  - OAG Message
  - Contact Model Manager/MAWTS rep
  - Contact Program Office Reps
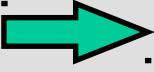 - Naval Message

Prestrike

Post-strike

13
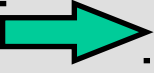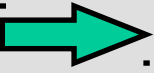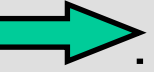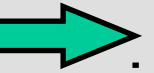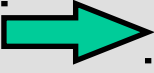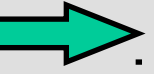
BACKUP SLIDES

Why JMPS?
Changing Warfare Environment
Increasing Demands, Decreasing Resources

Target Set	→	**Increasingly mobile**
Threat	→	**Mobile and electronically agile**
Aircraft	→	**Multi-mission/single seat, increased processing and "programmability"**
Weapons	→	**Guided, standoff, pre-flight planned**
Operational Concepts	→	**High tempo, maneuver warfare**
National Expectations	→	**Rapid, decisive victory, with minimal losses and enemy collateral damage/non-combatant casualties**
Force Structure	→	**Fewer platforms, weapons, and people**

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